ELSEVIER

Toxicology 106 (1996) 301–302

TOXICOLOGY

Volume contents

Volume 106 (1996)

Preliminary studies of the toxic effects of non-ionic surfactants derived from lysine **(A series of lysine derivatives tested for hemolysis and tissue irritancy)**
M. Macián, J. Seguer, M.R. Infante, C. Selve, M.P. Vinardell (Barcelona, Spain; Vandoeuvre-les-Nancy, France) 1–9

HI-6 Therapy and the acute phase response in the rat **(The therapy does not seem to affect the respective parameters)**
S. Ivanović-Matić, G. Poznanović (Belgrade, Yugoslavia) 11–17

Bifonazole, but not the structurally-related clotrimazole, induces both peroxisome proliferation and members of the cytochrome P4504A sub-family in rat liver **(Both antimycotics have different effects on the investigated parameters)**
O. Sabzevari, M. Hatcher, P. Kentish, M. O'Sullivan, G.G. Gibson (Surrey, UK; Cardiff, Wales, UK) 19–26

Vanadium(IV)-mediated free radical generation and related 2′-deoxyguanosine hydroxylation and DNA damage **(Vanadium(IV) reacts with t-butyl-OOH to produce free radicals)**
X. Shi, H. Jiang, Y. Mao, J. Ye, U. Saffiotti (Bethesda, Frederick, MD) 27–38

Hydroperoxide-induced nucleotide degradation and adenosine formation in isolated rat cardiomyocytes **(Tert-butyl hydroperoxide leads to plasma membrane damage and hypercontraction)**
B.S. Andersson, R.F. Vidal, M. Sundberg, J. Rajs, P. Sótonyi (Stockholm, Sweden) 39–48

Glutathionyl hydroquinone: a potent pro-oxidant and a possible toxic metabolite of benzene **(There seems to be confirmation that this conjugate transmits a toxic damage)**
G.S. Rao (Lucknow, India) 49–54

Protection against cadmium-metallothionein nephrotoxicity in streptozotocin-induced diabetic rats: role of increased metallothionein synthesis induced by streptozotocin **(The hypothesis is that streptozotocin provides the kidney with more protective metallothionein)**
T. Jin, G. Nordberg, J. Sehlin, O. Vesterberg (Umeå, Solna, Sweden) 55–63

Induction of dedifferentiated clones of LLC-PK_1 cells upon long-term exposure to dichlorovinylcysteine **(Exposition induces dedifferentiation which is maintained after omission of the agent)**
S. Vamvakas, H. Richter, D. Bittner (Würzburg, Germany) 65–74

Mechanisms of selective copper removal by tetrathiomolybdate from metallothionein in LEC rats **(A study used a combined in vivo-in vitro approach)**
Y. Ogra, M. Ohmichi, K.T. Suzuki (Chiba, Japan) 75–83

Oxidation of pyridine nucleotides is an early event in the lethality of allyl alcohol **(Allyl alcohol produces reduction of pyridine nucleotides, followed by pyridine nucleotide oxidation and interconversion)**
L.E. Rikans, D.Y. Cai, K.R. Hornbrook (Oklahoma, OK) 85–92

Assessment of the protective activity of monisoamyl *meso*-2,3-dimercaptosuccinate against methylmercury-induced maternal and embryo/fetal toxicity in mice **(The test compound reduces fetal toxicity but will be unsuitable for use in humans)**
M. Bellés, D.J. Sánchez, M. Gómez, J.L. Domingo, M.M. Jones, P.K. Singh (Reus, Spain; Nashville, TN) 93–97

Induction of hepatic cytochrome P4502E1 in rats by acetylsalicylic acid or sodium salicylate **(Both anti-inflammatory drugs after 24 h double the cytochrome and increase m-RNA)**
B. Damme, D. Darmer, D. Pankow (Halle, Germany) 99–103

Binding of a 3,3′,4,4′-tetrachlorobiphenyl (CB-77) metabolite to fetal transthyretin and effects on fetal thyroid hormone levels in mice **(The 4-hydroxy metabolite binds to fetal TTR and lowers T_4 levels)**
P.O. Darnerud, D. Morse, E. Klasson-Wehler, A. Brouwer (Wageningen, The Netherlands; Uppsala, Stockholm, Sweden) 105–114

Effects of ethanol administration on cerebral non-protein sulfhydryl content in rats exposed to styrene vapour **(Subchronic administration of both agents reduces NPS and increases styrene metabolism)**
T. Coccini, A. Di Nucci, M. Tonini, L. Maestri, L.G. Costa, M. Liuzzi, L. Manzo (Pavia, Italy; Seattle, USA). 115–122

0300-483X/96/$15.00 © 1996 Elsevier Science Ireland Ltd. All rights reserved

Biliary excretion of biochemically active cyanobacteria (blue-green algae) hepatotoxins in fish **(The presence of microcystein in bile is monitored by the inhibition of protein phosphatases using rape seed *phosphorylase a* as substrate)**
A. Sahin, F.G. Tencalla, D.R. Dietrich, H. Naegeli (Zürich, Schwerzenbach, Switzerland; Pittsburg, PA)..... 123–130
Effect of pyrethroids on pentobarbital-induced sleeping time in relation to the chemical structure **(Pyrethroids with a cyano group on the alcohol moiety shorten sleeping time while those with an ethynyl group on the acid moiety prolong it)**
R. Tsuji, N. Isobe, H. Kawasaki (Osaka, Japan)..... 131–137
Comparative evaluation of amiodarone-induced phospholipidosis and drug accumulation in Fischer-344 and Sprague–Dawley rats **(F344 rats are more susceptible)**
M.J. Reasor, C.M. McCloud, T.L. Beard, D.C. Ebert, S. Kacew, M.F. Gardner, K.A. Aldern, K.Y. Hostetler (Morganstown, WV; Norwich, NY; Ottawa, Canada; San Diego, CA)..... 139–147
α_{2u}-Globulins in the urine of male rats: a reliable indicator for α_{2u}-globulin accumulation in the kidney **(Validation of the measurement as a urinary marker)**
K. Saito, S. Uwagawa, H. Kaneko, K. Shiba, Y. Tomigahara, I. Nakatsuka (Osaka, Japan)..... 149–157
Prevention of cisplatin nephrotoxicity by exogenous atrial natriuretic peptide **(Nephrotoxicity can be mitigated without loss of antitumour activity of the drug)**
P.M. Deegan, M.A. Basinger, M.M. Jones, K.R. Hande (Nashville, TN)..... 159–166
Citrinin produces acute adverse changes in renal function and ultrastructure in pentobarbital-anesthetized dogs without concomitant reductions in $[potassium]_{plasma}$ **(Direct toxic effects of citrinin are documented)**
M.E. Krejci, N.S. Bretz, D.A. Koechel (Toledo, OH)..... 167–177
Effects of cadmium on the release of tissue plasminogen activator and plasminogen activator inhibitor type 1 from cultured human vascular smooth muscle cells and fibroblasts **(Cd may disturb regulation of fibrinolysis)**
C. Yamamoto, T. Kaji, M. Sakamoto, H. Kozuka (Kanazawa, Toyama, Japan)..... 179–185
Benzoyl peroxide cytotoxicity evaluated in vitro with the human keratinocyte cell line, RHEK-1 **(Cytotoxicity may be mediated by reactive free radicals)**
H. Babich, H.L. Zuckerbraun, B.J. Wurzburger, Y.L. Rubin, E. Borenfreund, L. Blau (New York, NY)..... 187–196
Serum amino acid changes in rats with thioacetamide-induced liver cirrhosis **(This liver toxicant changes the profile of amino acids)**
L. Fontana, E. Moreira, M.I. Torres, M.I. Fernández, A. Ríos, F. Sánchez de Medina, A. Gil (Granada, Spain) 197–206
Human cytochromes P450 expressed in *Escherichia coli*: production of specific antibodies **(A system of vectorial expression and antibody production makes human P-450 accessible)**
C. Belloc, S. Baird, J. Cosme, S. Lecoeur, J.-C. Gautier, D. Challine, I. de Waziers, J.-P. Flinois, P.H. Beaune (Paris, France)..... 207–219
Effects of 2,3,7,8-tetrachlorodibenzo-*p*-dioxin on humoral and cell-mediated immunity in Sprague–Dawley rats **(The complex interactions of TCDD with the immune system are described)**
F. Fan, D. Wierda, K.K. Rozman (Kansas City, Kansas Greenfield, Indiana; Neuherberg, Germany)..... 221–228
Renal amino acid transport in immature and adult rats during thallium-induced nephrotoxicity **(In adult but not in immature rats amino acid excretion allows detection of nephrotoxicity)**
C. Fleck, D. Appenroth (Jena, Germany)..... 229–236

Immunotoxicology

Stimulation by oxazolone of increased IL-6, but not IL-10, in the skin of mice **(Topical application of oxazolone to the ears of mice induced a rapid and dose-dependent increase in IL-6 expression)**
M.R. Holliday, R.J. Dearman, D.A. Basketter, I. Kimber (Macclesfield, Bedford, UK)..... 237–242

Toxicology information and resources

Risk-based concentrations: prioritizing environmental problems using limited data
R.L. Smith (Philadelphia, PA)..... 243–266
Computer prediction of possible toxic action from chemical structure: an update on the DEREK system
J.E. Ridings, M.D. Barratt, R. Cary, C.G. Earnshaw, C.E. Eggington, M.K. Ellis, P.N. Judson, J.J. Langowski, C.A. Marchant, M.P. Payne, W.P. Watson, T.D. Yih (Welwyn, Sharnbrook, Bootle, Walden, Macclesfield, Harrogate, Leeds, Sheffield, Sittingbourne, UK; Oss, The Netherlands) 267–279

Book review..... 281
Announcements..... 283–286
Instructions to authors..... 287–288
Contents of journals relating to Toxicology..... 289–292
Author index..... 293–294
Subject index..... 295–299
Volume contents..... 301–302